## Author index to volume 73

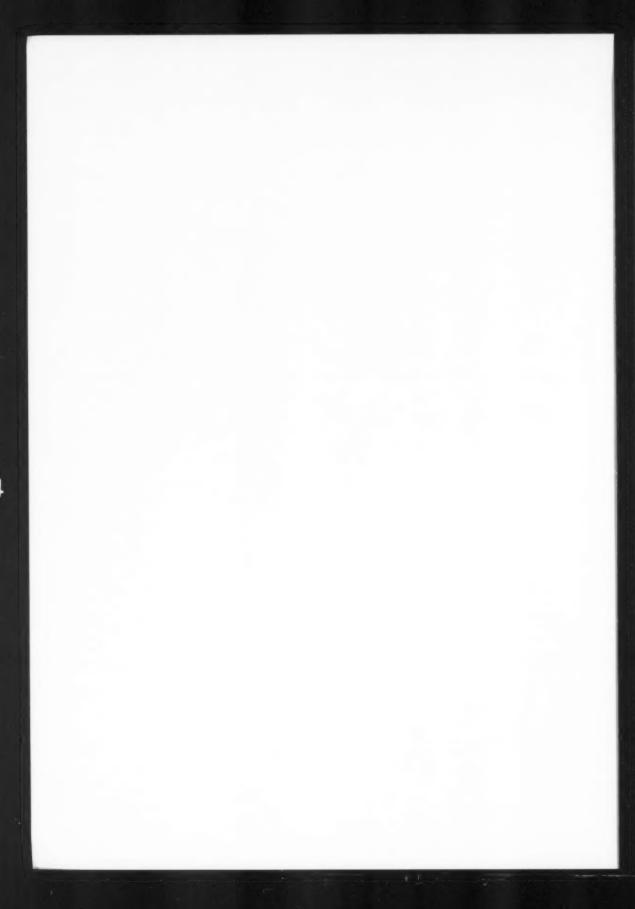
| Alcock, C.B., see N. Gunasekaran                                                                                                        | 73 (1994) 289               |
|-----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| Amano, E., see J.J. Carrillo-Lazo                                                                                                       | 73 (1994) 169               |
| Amels, P., see P. Nischwitz                                                                                                             | 73 (1994) 105               |
| Badwal, S.P.S., see F.T. Ciacchi                                                                                                        | 73 (1994) 49                |
| Bakshi, N., see N. Gunasekaran                                                                                                          | 73 (1994) 289               |
| Benyamin, K., Self-diffusion of sodium and cesium ions in hydrous tital                                                                 | nium oxide 73 (1994) 303    |
| Blesa, M.A., see E.E. Sileo                                                                                                             | 73 (1994) 153               |
| Bradshaw, J., S.B. Tian and G. Xu, Ionic conductivity measurements of                                                                   |                             |
| quaternary copolymer                                                                                                                    | 73 (1994) 147               |
| Burzyńska, L., J. Karp and Z. Zembura, Formation of copper hydride                                                                      | -                           |
| solution with hydrogen depolarization. X-ray diffraction analysis                                                                       | 73 (1994) 35                |
| Carberry, J.J., see N. Gunasekaran                                                                                                      | 73 (1994) 289               |
| Carrillo-Lazo, J.J., P. Quintana, E. Amano and A. Huanosta, Ac imped                                                                    |                             |
| studies of the solid solution $\text{Li}_2\text{Zr}_{1-x}\text{Ti}_x\text{O}_3$                                                         | 73 (1994) 169               |
| Chelali, N. and J. Guitton, Electrochemical behavior of α- and β-PbO <sub>2</sub> .                                                     |                             |
| fusion from "all solid-state" protonic electrolyte                                                                                      | 73 (1994) 227               |
| Chiodelli, G. and M. Scagliotti, Electrical characterization of lanthanum                                                               |                             |
| layers by impedance spectroscopy                                                                                                        | 73 (1994) 265               |
| Ciacchi, F.T., K.M. Crane and S.P.S. Badwal, Evaluation of commercia                                                                    |                             |
| for solid oxide fuel cells                                                                                                              | 73 (1994) 49                |
| Clearfield, A., see D.M. Poojary                                                                                                        | 73 (1994) 75                |
| Colomban, Ph. and E. Mouchon, Phase transition in thermal history<br>NASICON, solid solution and lithium derivative ceramics and of Sit |                             |
| NASICON composites                                                                                                                      | 73 (1994) 209               |
| Crane, K.M., see F.T. Ciacchi                                                                                                           | 73 (1994) 49                |
| Criado, C., see J.R. Ramos-Barrado                                                                                                      | 73 (1994) 67                |
| Croce, F., see P.E. Stallworth                                                                                                          | 73 (1994) 119               |
| Dahn, J.R., see M.N. Richard                                                                                                            | 73 (1994) 81                |
| Dieckmann, R., see J. Xue                                                                                                               | 73 (1994) 273               |
| Doi, A., O. Kawasaki and Y. Itoh, Mechanical relaxations of (AgI) <sub>x</sub> (A                                                       | $(g_4P_2O_7)_{1-r}$ glasses |
| in the temperature range from -150 to 200°C                                                                                             | 73 (1994) 241               |
| Duverger, E., B. Jannot, M. Maglione and M. Jannin, Electrical transpor                                                                 | t properties of Mn-         |
| and Ni-doped barium titanate at high temperature                                                                                        | 73 (1994) 139               |
| Elliott, S.R., see M. Le Stanguennec                                                                                                    | 73 (1994) 199               |
|                                                                                                                                         |                             |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 72 (1004) 00                                                                                                                                                                                           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Fang, C., see H. Gao                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 73 (1994) 99                                                                                                                                                                                           |
| Farfán-Torres, E.M., see M. Martínez-Lara                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 73 (1994) 189                                                                                                                                                                                          |
| Fetting, F., see P. Nischwitz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 73 (1994) 105<br>73 (1994) 221                                                                                                                                                                         |
| Filal, M., see D. Monceau Frade, J.R., see R.M.C. Marques                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 73 (1994) 221                                                                                                                                                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 73 (1994) 13                                                                                                                                                                                           |
| Frade, J.R., see R.M.C. Marques<br>Friebel, C., see R. Stoyanova                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 73 (1994) 1                                                                                                                                                                                            |
| Fuller, E.W., see M.N. Richard                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 73 (1994) 81                                                                                                                                                                                           |
| rulet, E. W., See M.N. Richard                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 73 (1994) 61                                                                                                                                                                                           |
| Galer, J.M., see M.J. Hudson                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 73 (1994) 175                                                                                                                                                                                          |
| Ganne, M., see O. Joubert                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 73 (1994) 309                                                                                                                                                                                          |
| Gao, H., Y. Huo, C. Fang, C. Sun and Y. Zhang, Ionic conduction in oxysulfide glasses for                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                        |
| the Li <sub>2</sub> S-B <sub>2</sub> O <sub>3</sub> (-LiBr) systems                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 73 (1994) 99                                                                                                                                                                                           |
| García-Alvarado, F. and J.M. Tarascon, Lithium intercalation in Ag <sub>2</sub> V <sub>4</sub> O <sub>11</sub>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 73 (1994) 247                                                                                                                                                                                          |
| Gopalakrishnan, J., see V. Thangadurai                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 73 (1994) 9                                                                                                                                                                                            |
| Gorenstein, A., see C. Julien                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 73 (1994) 319                                                                                                                                                                                          |
| Greenbaum, S.G., see P.E. Stallworth                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 73 (1994) 119                                                                                                                                                                                          |
| Guesdon, J.P., see C. Julien                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 73 (1994) 319                                                                                                                                                                                          |
| Guitton, J., see N. Chelali                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 73 (1994) 227                                                                                                                                                                                          |
| Gunasekaran, N., S. Rajadurai, J.J. Carberry, N. Bakshi and C.B. Alcock, Surface characterization and catalytic properties of La <sub>1-x</sub> A <sub>x</sub> MO <sub>3</sub> perovskite type oxides. Part I. Studies                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                        |
| on $La_{0.95}Ba_{0.05}MO_3$ (M=Mn, Fe or Co) oxides                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 73 (1994) 289                                                                                                                                                                                          |
| Gür, T.M., see J. Li                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 73 (1994) 185                                                                                                                                                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                        |
| Hagenmuller, P., see E.F. Hairetdinov                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 73 (1994) 93                                                                                                                                                                                           |
| Hagenmuller, P., see E.F. Hairetdinov  Hairetdinov, E.F., N.F. Uvarov, J.M. Réau, M. Wahbi and P. Hagenmuller, Estimation of charge carrier concentration in the fluorite-type Phys. Jan. Biy. Fyrance (fixed x.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 73 (1994) 93                                                                                                                                                                                           |
| Hairetdinov, E.F., N.F. Uvarov, J.M. Réau, M. Wahbi and P. Hagenmuller, Estimation of charge carrier concentration in the fluorite-type $Pb_{1-x-y}In_{x-y}Bi_{2y}F_{2+x+y}$ (fixed x,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                        |
| Hairetdinov, E.F., N.F. Uvarov, J.M. Réau, M. Wahbi and P. Hagenmuller, Estimation of charge carrier concentration in the fluorite-type $Pb_{1-x-y}In_{x-y}Bi_{2y}F_{2+x+y}$ (fixed $x$ , $0 \le y \le x$ ) solid solution involving two substitutional cations                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 73 (1994) 93                                                                                                                                                                                           |
| Hairetdinov, E.F., N.F. Uvarov, J.M. Réau, M. Wahbi and P. Hagenmuller, Estimation of charge carrier concentration in the fluorite-type $Pb_{1-x-y}In_{x-y}Bi_{2y}F_{2+x+y}$ (fixed $x$ , $0 \le y \le x$ ) solid solution involving two substitutional cations Han, J. and YS. Lin, An improved analysis on kinetics of electrochemical vapor deposition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 73 (1994) 93<br>73 (1994) 255                                                                                                                                                                          |
| Hairetdinov, E.F., N.F. Uvarov, J.M. Réau, M. Wahbi and P. Hagenmuller, Estimation of charge carrier concentration in the fluorite-type $Pb_{1-x-y}In_{x-y}Bi_{2y}F_{2+x+y}$ (fixed $x$ , $0 \le y \le x$ ) solid solution involving two substitutional cations                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 73 (1994) 93                                                                                                                                                                                           |
| Hairetdinov, E.F., N.F. Uvarov, J.M. Réau, M. Wahbi and P. Hagenmuller, Estimation of charge carrier concentration in the fluorite-type $Pb_{1-x-y}In_{x-y}Bi_{2y}F_{2+x+y}$ (fixed $x$ , $0 \le y \le x$ ) solid solution involving two substitutional cations Han, J. and YS. Lin, An improved analysis on kinetics of electrochemical vapor deposition Hayashi, H., see J. Li                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 73 (1994) 93<br>73 (1994) 255                                                                                                                                                                          |
| <ul> <li>Hairetdinov, E.F., N.F. Uvarov, J.M. Réau, M. Wahbi and P. Hagenmuller, Estimation of charge carrier concentration in the fluorite-type Pb<sub>1-x-y</sub>In<sub>x-y</sub>Bi<sub>2y</sub>F<sub>2+x+y</sub> (fixed x, 0≤y≤x) solid solution involving two substitutional cations</li> <li>Han, J. and YS. Lin, An improved analysis on kinetics of electrochemical vapor deposition Hayashi, H., see J. Li</li> <li>Huang, K., Y. Xia and Q. Liu, Rapid determination of electronic conductivity in MgO-</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 73 (1994) 93<br>73 (1994) 255<br>73 (1994) 185                                                                                                                                                         |
| <ul> <li>Hairetdinov, E.F., N.F. Uvarov, J.M. Réau, M. Wahbi and P. Hagenmuller, Estimation of charge carrier concentration in the fluorite-type Pb<sub>1-x-y</sub>In<sub>x-y</sub>Bi<sub>2y</sub>F<sub>2+x+y</sub> (fixed x, 0≤y≤x) solid solution involving two substitutional cations</li> <li>Han, J. and YS. Lin, An improved analysis on kinetics of electrochemical vapor deposition Hayashi, H., see J. Li</li> <li>Huang, K., Y. Xia and Q. Liu, Rapid determination of electronic conductivity in MgO-partially stabilized ZrO₂ electrolytes using EMF method</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 73 (1994) 93<br>73 (1994) 255<br>73 (1994) 185<br>73 (1994) 41                                                                                                                                         |
| <ul> <li>Hairetdinov, E.F., N.F. Uvarov, J.M. Réau, M. Wahbi and P. Hagenmuller, Estimation of charge carrier concentration in the fluorite-type Pb<sub>1-x-y</sub>In<sub>x-y</sub>Bi<sub>2y</sub>F<sub>2+x+y</sub> (fixed x, 0≤y≤x) solid solution involving two substitutional cations</li> <li>Han, J. and YS. Lin, An improved analysis on kinetics of electrochemical vapor deposition Hayashi, H., see J. Li</li> <li>Huang, K., Y. Xia and Q. Liu, Rapid determination of electronic conductivity in MgO-partially stabilized ZrO₂ electrolytes using EMF method</li> <li>Huanosta, A., see J.J. Carrillo-Lazo</li> <li>Hudson, M.J. and J.M. Galer, Synthesis and characterisation of conducting copper sulphide surfaces on textile fibres: Part 2</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                  | 73 (1994) 93<br>73 (1994) 255<br>73 (1994) 185<br>73 (1994) 41<br>73 (1994) 169<br>73 (1994) 175                                                                                                       |
| <ul> <li>Hairetdinov, E.F., N.F. Uvarov, J.M. Réau, M. Wahbi and P. Hagenmuller, Estimation of charge carrier concentration in the fluorite-type Pb<sub>1-x-y</sub>In<sub>x-y</sub>Bi<sub>2y</sub>F<sub>2+x+y</sub> (fixed x, 0≤y≤x) solid solution involving two substitutional cations</li> <li>Han, J. and YS. Lin, An improved analysis on kinetics of electrochemical vapor deposition Hayashi, H., see J. Li</li> <li>Huang, K., Y. Xia and Q. Liu, Rapid determination of electronic conductivity in MgO-partially stabilized ZrO₂ electrolytes using EMF method</li> <li>Huanosta, A., see J.J. Carrillo-Lazo</li> <li>Hudson, M.J. and J.M. Galer, Synthesis and characterisation of conducting copper sulphide surfaces on textile fibres: Part 2</li> <li>Huo, Y., see H. Gao</li> </ul>                                                                                                                                                                                                                                                                                                                                                     | 73 (1994) 93<br>73 (1994) 255<br>73 (1994) 185<br>73 (1994) 41<br>73 (1994) 169<br>73 (1994) 175<br>73 (1994) 99                                                                                       |
| <ul> <li>Hairetdinov, E.F., N.F. Uvarov, J.M. Réau, M. Wahbi and P. Hagenmuller, Estimation of charge carrier concentration in the fluorite-type Pb<sub>1-x-y</sub>In<sub>x-y</sub>Bi<sub>2y</sub>F<sub>2+x+y</sub> (fixed x, 0≤y≤x) solid solution involving two substitutional cations</li> <li>Han, J. and YS. Lin, An improved analysis on kinetics of electrochemical vapor deposition Hayashi, H., see J. Li</li> <li>Huang, K., Y. Xia and Q. Liu, Rapid determination of electronic conductivity in MgO-partially stabilized ZrO₂ electrolytes using EMF method</li> <li>Huanosta, A., see J.J. Carrillo-Lazo</li> <li>Hudson, M.J. and J.M. Galer, Synthesis and characterisation of conducting copper sulphide surfaces on textile fibres: Part 2</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                  | 73 (1994) 93<br>73 (1994) 255<br>73 (1994) 185<br>73 (1994) 41<br>73 (1994) 169<br>73 (1994) 175                                                                                                       |
| Hairetdinov, E.F., N.F. Uvarov, J.M. Réau, M. Wahbi and P. Hagenmuller, Estimation of charge carrier concentration in the fluorite-type Pb <sub>1-x-y</sub> In <sub>x-y</sub> Bi <sub>2y</sub> F <sub>2+x+y</sub> (fixed x, 0≤y≤x) solid solution involving two substitutional cations Han, J. and YS. Lin, An improved analysis on kinetics of electrochemical vapor deposition Hayashi, H., see J. Li Huang, K., Y. Xia and Q. Liu, Rapid determination of electronic conductivity in MgO-partially stabilized ZrO₂ electrolytes using EMF method Huanosta, A., see J.J. Carrillo-Lazo Hudson, M.J. and J.M. Galer, Synthesis and characterisation of conducting copper sulphide surfaces on textile fibres: Part 2 Huo, Y., see H. Gao Hussain, O.M., see C. Julien                                                                                                                                                                                                                                                                                                                                                                                  | 73 (1994) 93<br>73 (1994) 255<br>73 (1994) 185<br>73 (1994) 41<br>73 (1994) 169<br>73 (1994) 175<br>73 (1994) 99                                                                                       |
| <ul> <li>Hairetdinov, E.F., N.F. Uvarov, J.M. Réau, M. Wahbi and P. Hagenmuller, Estimation of charge carrier concentration in the fluorite-type Pb<sub>1-x-y</sub>In<sub>x-y</sub>Bi<sub>2y</sub>F<sub>2+x+y</sub> (fixed x, 0≤y≤x) solid solution involving two substitutional cations</li> <li>Han, J. and YS. Lin, An improved analysis on kinetics of electrochemical vapor deposition Hayashi, H., see J. Li</li> <li>Huang, K., Y. Xia and Q. Liu, Rapid determination of electronic conductivity in MgO-partially stabilized ZrO₂ electrolytes using EMF method</li> <li>Huanosta, A., see J.J. Carrillo-Lazo</li> <li>Hudson, M.J. and J.M. Galer, Synthesis and characterisation of conducting copper sulphide surfaces on textile fibres: Part 2</li> <li>Huo, Y., see H. Gao</li> <li>Hussain, O.M., see C. Julien</li> <li>Ito, Y., T. Mukoyama, F. Kanamaru and S. Yoshikado, Crystal structure of beta-lead fluor-</li> </ul>                                                                                                                                                                                                            | 73 (1994) 93<br>73 (1994) 255<br>73 (1994) 185<br>73 (1994) 41<br>73 (1994) 169<br>73 (1994) 175<br>73 (1994) 99<br>73 (1994) 319                                                                      |
| <ul> <li>Hairetdinov, E.F., N.F. Uvarov, J.M. Réau, M. Wahbi and P. Hagenmuller, Estimation of charge carrier concentration in the fluorite-type Pb<sub>1-x-y</sub>In<sub>x-y</sub>Bi<sub>2y</sub>F<sub>2+x+y</sub> (fixed x, 0≤y≤x) solid solution involving two substitutional cations</li> <li>Han, J. and YS. Lin, An improved analysis on kinetics of electrochemical vapor deposition Hayashi, H., see J. Li</li> <li>Huang, K., Y. Xia and Q. Liu, Rapid determination of electronic conductivity in MgO-partially stabilized ZrO₂ electrolytes using EMF method</li> <li>Huanosta, A., see J.J. Carrillo-Lazo</li> <li>Hudson, M.J. and J.M. Galer, Synthesis and characterisation of conducting copper sulphide surfaces on textile fibres: Part 2</li> <li>Huo, Y., see H. Gao</li> <li>Hussain, O.M., see C. Julien</li> <li>Ito, Y., T. Mukoyama, F. Kanamaru and S. Yoshikado, Crystal structure of beta-lead fluoride doped potassium fluoride and ionic conduction</li> </ul>                                                                                                                                                            | 73 (1994) 93<br>73 (1994) 255<br>73 (1994) 185<br>73 (1994) 41<br>73 (1994) 169<br>73 (1994) 175<br>73 (1994) 99<br>73 (1994) 319<br>73 (1994) 283                                                     |
| <ul> <li>Hairetdinov, E.F., N.F. Uvarov, J.M. Réau, M. Wahbi and P. Hagenmuller, Estimation of charge carrier concentration in the fluorite-type Pb<sub>1-x-y</sub>In<sub>x-y</sub>Bi<sub>2y</sub>F<sub>2+x+y</sub> (fixed x, 0≤y≤x) solid solution involving two substitutional cations</li> <li>Han, J. and YS. Lin, An improved analysis on kinetics of electrochemical vapor deposition Hayashi, H., see J. Li</li> <li>Huang, K., Y. Xia and Q. Liu, Rapid determination of electronic conductivity in MgO-partially stabilized ZrO₂ electrolytes using EMF method</li> <li>Huanosta, A., see J.J. Carrillo-Lazo</li> <li>Hudson, M.J. and J.M. Galer, Synthesis and characterisation of conducting copper sulphide surfaces on textile fibres: Part 2</li> <li>Huo, Y., see H. Gao</li> <li>Hussain, O.M., see C. Julien</li> <li>Ito, Y., T. Mukoyama, F. Kanamaru and S. Yoshikado, Crystal structure of beta-lead fluor-</li> </ul>                                                                                                                                                                                                            | 73 (1994) 93<br>73 (1994) 255<br>73 (1994) 185<br>73 (1994) 41<br>73 (1994) 169<br>73 (1994) 175<br>73 (1994) 99<br>73 (1994) 319                                                                      |
| <ul> <li>Hairetdinov, E.F., N.F. Uvarov, J.M. Réau, M. Wahbi and P. Hagenmuller, Estimation of charge carrier concentration in the fluorite-type Pb<sub>1-x-y</sub>In<sub>x-y</sub>Bi<sub>2y</sub>F<sub>2+x+y</sub> (fixed x, 0≤y≤x) solid solution involving two substitutional cations</li> <li>Han, J. and YS. Lin, An improved analysis on kinetics of electrochemical vapor deposition Hayashi, H., see J. Li</li> <li>Huang, K., Y. Xia and Q. Liu, Rapid determination of electronic conductivity in MgO-partially stabilized ZrO₂ electrolytes using EMF method</li> <li>Huanosta, A., see J.J. Carrillo-Lazo</li> <li>Hudson, M.J. and J.M. Galer, Synthesis and characterisation of conducting copper sulphide surfaces on textile fibres: Part 2</li> <li>Huo, Y., see H. Gao</li> <li>Hussain, O.M., see C. Julien</li> <li>Ito, Y., T. Mukoyama, F. Kanamaru and S. Yoshikado, Crystal structure of beta-lead fluoride doped potassium fluoride and ionic conduction</li> </ul>                                                                                                                                                            | 73 (1994) 93<br>73 (1994) 255<br>73 (1994) 185<br>73 (1994) 41<br>73 (1994) 169<br>73 (1994) 175<br>73 (1994) 99<br>73 (1994) 319<br>73 (1994) 283                                                     |
| <ul> <li>Hairetdinov, E.F., N.F. Uvarov, J.M. Réau, M. Wahbi and P. Hagenmuller, Estimation of charge carrier concentration in the fluorite-type Pb<sub>1-x-y</sub>In<sub>x-y</sub>Bi<sub>2y</sub>F<sub>2+x+y</sub> (fixed x, 0 ≤ y ≤ x) solid solution involving two substitutional cations</li> <li>Han, J. and YS. Lin, An improved analysis on kinetics of electrochemical vapor deposition Hayashi, H., see J. Li</li> <li>Huang, K., Y. Xia and Q. Liu, Rapid determination of electronic conductivity in MgO-partially stabilized ZrO₂ electrolytes using EMF method</li> <li>Huanosta, A., see J.J. Carrillo-Lazo</li> <li>Hudson, M.J. and J.M. Galer, Synthesis and characterisation of conducting copper sulphide surfaces on textile fibres: Part 2</li> <li>Huo, Y., see H. Gao</li> <li>Hussain, O.M., see C. Julien</li> <li>Ito, Y., T. Mukoyama, F. Kanamaru and S. Yoshikado, Crystal structure of beta-lead fluoride doped potassium fluoride and ionic conduction</li> <li>Itoh, Y., see A. Doi</li> </ul>                                                                                                                          | 73 (1994) 93<br>73 (1994) 255<br>73 (1994) 185<br>73 (1994) 41<br>73 (1994) 169<br>73 (1994) 175<br>73 (1994) 99<br>73 (1994) 319<br>73 (1994) 283<br>73 (1994) 241                                    |
| <ul> <li>Hairetdinov, E.F., N.F. Uvarov, J.M. Réau, M. Wahbi and P. Hagenmuller, Estimation of charge carrier concentration in the fluorite-type Pb<sub>1-x-y</sub>In<sub>x-y</sub>Bi<sub>2y</sub>F<sub>2+x+y</sub> (fixed x, 0≤y≤x) solid solution involving two substitutional cations</li> <li>Han, J. and YS. Lin, An improved analysis on kinetics of electrochemical vapor deposition Hayashi, H., see J. Li</li> <li>Huang, K., Y. Xia and Q. Liu, Rapid determination of electronic conductivity in MgO-partially stabilized ZrO₂ electrolytes using EMF method</li> <li>Huanosta, A., see J.J. Carrillo-Lazo</li> <li>Hudson, M.J. and J.M. Galer, Synthesis and characterisation of conducting copper sulphide surfaces on textile fibres: Part 2</li> <li>Huo, Y., see H. Gao</li> <li>Hussain, O.M., see C. Julien</li> <li>Ito, Y., T. Mukoyama, F. Kanamaru and S. Yoshikado, Crystal structure of beta-lead fluoride doped potassium fluoride and ionic conduction</li> <li>Itoh, Y., see A. Doi</li> <li>Jannin, M., see E. Duverger</li> <li>Jannot, B., see E. Duverger</li> <li>Jimenéz-Lopez, A., see J.R. Ramos-Barrado</li> </ul> | 73 (1994) 93 73 (1994) 255 73 (1994) 185  73 (1994) 41 73 (1994) 169  73 (1994) 175 73 (1994) 99 73 (1994) 319  73 (1994) 283 73 (1994) 241  73 (1994) 139 73 (1994) 139 73 (1994) 139 73 (1994) 67    |
| <ul> <li>Hairetdinov, E.F., N.F. Uvarov, J.M. Réau, M. Wahbi and P. Hagenmuller, Estimation of charge carrier concentration in the fluorite-type Pb<sub>1-x-y</sub>In<sub>x-y</sub>Bi<sub>2y</sub>F<sub>2+x+y</sub> (fixed x, 0 ≤ y ≤ x) solid solution involving two substitutional cations</li> <li>Han, J. and YS. Lin, An improved analysis on kinetics of electrochemical vapor deposition Hayashi, H., see J. Li</li> <li>Huang, K., Y. Xia and Q. Liu, Rapid determination of electronic conductivity in MgO-partially stabilized ZrO₂ electrolytes using EMF method</li> <li>Huanosta, A., see J.J. Carrillo-Lazo</li> <li>Hudson, M.J. and J.M. Galer, Synthesis and characterisation of conducting copper sulphide surfaces on textile fibres: Part 2</li> <li>Huo, Y., see H. Gao</li> <li>Hussain, O.M., see C. Julien</li> <li>Ito, Y., T. Mukoyama, F. Kanamaru and S. Yoshikado, Crystal structure of beta-lead fluoride doped potassium fluoride and ionic conduction</li> <li>Itoh, Y., see A. Doi</li> <li>Jannin, M., see E. Duverger</li> <li>Jannot, B., see E. Duverger</li> <li>Jannot, B., see E. Duverger</li> </ul>           | 73 (1994) 93<br>73 (1994) 255<br>73 (1994) 185<br>73 (1994) 169<br>73 (1994) 169<br>73 (1994) 99<br>73 (1994) 319<br>73 (1994) 283<br>73 (1994) 241<br>73 (1994) 139<br>73 (1994) 139<br>73 (1994) 139 |

| Joubert, O., A. Jouanneaux, M. Ganne, R.N. Vannier and G. Mairesse, Solid phase synthesis and characterization of new BIMEVOX series: Bi <sub>4</sub> V <sub>2-x</sub> M <sub>x</sub> O <sub>11</sub> (M=Sb <sup>v</sup> , Nb <sup>v</sup> ) Julien, C., G.A. Nazri, J.P. Guesdon, A. Gorenstein, A. Khelfa and O.M. Hussain, Influ- | 73 (1994) 309                 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| ence of the growth conditions on electrochemical features of MoO <sub>3</sub> film-cathodes in lithium microbatteries                                                                                                                                                                                                                | 73 (1994) 319                 |
|                                                                                                                                                                                                                                                                                                                                      |                               |
| Kanamaru, F., see Y. Ito                                                                                                                                                                                                                                                                                                             | 73 (1994) 283                 |
| Karp, J., see L. Burzyńska                                                                                                                                                                                                                                                                                                           | 73 (1994) 35                  |
| Katayama, K. and M. Senna, Preferential local dissolution of indented silicon {111} sur-                                                                                                                                                                                                                                             |                               |
| face by aqueous solutions of HF with varying pH                                                                                                                                                                                                                                                                                      | 73 (1994) 127                 |
| Kawasaki, O., see A. Doi                                                                                                                                                                                                                                                                                                             | 73 (1994) 241                 |
| Khelfa, A., see C. Julien                                                                                                                                                                                                                                                                                                            | 73 (1994) 319                 |
| Kuo, C.K. and P.S. Nicholson, The growth of K-β"-Al <sub>2</sub> O <sub>3</sub> single-crystal films on single-                                                                                                                                                                                                                      | 73 (1004) 207                 |
| crystal α-Al <sub>2</sub> O <sub>3</sub> substrates                                                                                                                                                                                                                                                                                  | 73 (1994) 297                 |
| Le Stanguennec, M. and S.R. Elliott, Frequency-dependent ionic conductivity in AgI-AgPO <sub>3</sub>                                                                                                                                                                                                                                 |                               |
| glasses                                                                                                                                                                                                                                                                                                                              | 73 (1994) 199                 |
| Li, J., see P.E. Stallworth                                                                                                                                                                                                                                                                                                          | 73 (1994) 119                 |
| Li, J., T.M. Gür, R. Sinclair, S.S. Rosenblum and H. Hayashi, Oxygen coulometric titra-                                                                                                                                                                                                                                              |                               |
| tion study of M Ba-ferrite                                                                                                                                                                                                                                                                                                           | 73 (1994) 185                 |
| Lin, YS., see J. Han                                                                                                                                                                                                                                                                                                                 | 73 (1994) 255                 |
| Liu, Q., see K. Huang                                                                                                                                                                                                                                                                                                                | 73 (1994) 41                  |
| Markita N. V. Marada T. Chianara N. Naharibi ad T. Minari Banaria ad                                                                                                                                                                                                                                                                 |                               |
| Machida, N., Y. Matsuda, T. Shigematsu, N. Nakanishi and T. Minami, Preparation and                                                                                                                                                                                                                                                  | 72 (1004) 62                  |
| cuprous ion conducting properties of the glasses in the system CuI-Cu <sub>2</sub> WO <sub>4</sub> -CuPO <sub>3</sub> Maglione, M., see E. Duverger                                                                                                                                                                                  | 73 (1994) 63<br>73 (1994) 139 |
| Maireles-Torres, P., see J.R. Ramos-Barrado                                                                                                                                                                                                                                                                                          | 73 (1994) 139                 |
| Mairesse, G., see O. Joubert                                                                                                                                                                                                                                                                                                         | 73 (1994) 309                 |
| Marques, F.M.B., see R.M.C. Marques                                                                                                                                                                                                                                                                                                  | 73 (1994) 15                  |
| Marques, F.M.B., see R.M.C. Marques                                                                                                                                                                                                                                                                                                  | 73 (1994) 27                  |
| Marques, R.M.C., F.M.B. Marques and J.R. Frade, Characterization of mixed conductors                                                                                                                                                                                                                                                 | (.,,,,                        |
| by dc techniques. Part I: Theoretical solutions                                                                                                                                                                                                                                                                                      | 73 (1994) 15                  |
| Marques, R.M.C., F.M.B. Marques and J.R. Frade, Characterization of mixed conductors                                                                                                                                                                                                                                                 | ()                            |
| by dc techniques. Part II: Experimental results                                                                                                                                                                                                                                                                                      | 73 (1994) 27                  |
| Martínez-Lara, M., E.M. Farfán-Torres, J. Santamaría-González and A. Jiménez-López,                                                                                                                                                                                                                                                  |                               |
| Porous silica pillared α-ZrTi phosphate-phosphonates materials                                                                                                                                                                                                                                                                       | 73 (1994) 189                 |
| Matsuda, Y., see N. Machida                                                                                                                                                                                                                                                                                                          | 73 (1994) 63                  |
| McEvoy, A.J., see S. Widmer                                                                                                                                                                                                                                                                                                          | 73 (1994) 165                 |
| Minami, T., see N. Machida                                                                                                                                                                                                                                                                                                           | 73 (1994) 63                  |
| Monceau, D., M. Filal, M. Tebtoub, C. Petot and G. Petot-Ervas, Kinetic demixing of ce-                                                                                                                                                                                                                                              |                               |
| ramics in an electrical field                                                                                                                                                                                                                                                                                                        | 73 (1994) 221                 |
| Mouchon, E., see Ph. Colomban                                                                                                                                                                                                                                                                                                        | 73 (1994) 209                 |
| Mukoyama, T., see Y. Ito                                                                                                                                                                                                                                                                                                             | 73 (1994) 283                 |
| Nakanishi, N., see N. Machida                                                                                                                                                                                                                                                                                                        | 73 (1994) 63                  |
| Nazri, G.A., see C. Julien                                                                                                                                                                                                                                                                                                           | 73 (1994) 319                 |
| Nicholson, P.S., see C.K. Kuo                                                                                                                                                                                                                                                                                                        | 73 (1994) 297                 |
|                                                                                                                                                                                                                                                                                                                                      |                               |

| Nischwitz, P., P. Amels and F. Fetting, Studies on the ionic conductivity of zeolitic solids                                                                                                   | 73 (1994) 105 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| Olivera-Pastor, P., see J.R. Ramos-Barrado                                                                                                                                                     | 73 (1994) 67  |
| Petot, C., see D. Monceau                                                                                                                                                                      | 73 (1994) 221 |
| Petot-Ervas, G., see D. Monceau                                                                                                                                                                | 73 (1994) 221 |
| Poojary, D.M., A. Clearfield, V.A. Timofeeva and S.E. Sigaryov, Crystal structures and ionic                                                                                                   | ()            |
| conductivity of Na <sub>5</sub> MP <sub>2</sub> O <sub>8</sub> F <sub>2</sub> (M=Al, Ga)                                                                                                       | 73 (1994) 75  |
| Quintana, P., see J.J. Carrillo-Lazo                                                                                                                                                           | 73 (1994) 169 |
| Quinteros-Rivero, M.F., see E.E. Sileo                                                                                                                                                         | 73 (1994) 153 |
| Rajadurai, S., see N. Gunasekaran                                                                                                                                                              | 73 (1994) 289 |
| Ramos-Barrado, J.R., C. Criado, P. Maireles-Torres, P. Olivera-Pastor, E. Rodríguez-Castellón and A. Jimenéz-Lopez, Hopping conductivity in lithium-exchanged pillared lay-                    |               |
| ered tin phosphate materials                                                                                                                                                                   | 73 (1994) 67  |
| Ravindranathan Thampi, K., see S. Widmer                                                                                                                                                       | 73 (1994) 165 |
| Réau, J.M., see E.F. Hairetdinov                                                                                                                                                               | 73 (1994) 93  |
| Richard, M.N., E.W. Fuller and J.R. Dahn, The effect of ammonia reduction on the spinel                                                                                                        |               |
| electrode materials, LiMn <sub>2</sub> O <sub>4</sub> and Li(Li <sub>1/3</sub> Mn <sub>5/3</sub> )O <sub>4</sub>                                                                               | 73 (1994) 81  |
| Rigotti, G., see E.E. Sileo                                                                                                                                                                    | 73 (1994) 153 |
| Rivero, B.E., see E.E. Sileo                                                                                                                                                                   | 73 (1994) 153 |
| Rodríguez-Castellón, E., see J.R. Ramos-Barrado                                                                                                                                                | 73 (1994) 67  |
| Rosenblum, S.S., see J. Li                                                                                                                                                                     | 73 (1994) 185 |
| Salomon, M., see P.E. Stallworth                                                                                                                                                               | 73 (1994) 119 |
| Santamaría-González, J., see M. Martinez-Lara                                                                                                                                                  | 73 (1994) 189 |
| Scagliotti, M., see G. Chiodelli                                                                                                                                                               | 73 (1994) 265 |
| Senna, M., see K. Katayama                                                                                                                                                                     | 73 (1994) 127 |
| Shigematsu, T., see N. Machida                                                                                                                                                                 | 73 (1994) 63  |
| Shukla, A.K., see V. Thangadurai                                                                                                                                                               | 73 (1994) 9   |
| Sigaryov, S.E., see D.M. Poojary                                                                                                                                                               | 73 (1994) 75  |
| Sileo, E.E., M.F. Quinteros-Rivero, B.E. Rivero, G. Rigotti and M.A. Blesa, Structure and                                                                                                      |               |
| reactivity of copper(II) carboxylates I. Copper (II) dipicolinates                                                                                                                             | 73 (1994) 153 |
| Sinclair, R., see J. Li                                                                                                                                                                        | 73 (1994) 185 |
| Slane, S., see P.E. Stallworth                                                                                                                                                                 | 73 (1994) 119 |
| Stallworth, P.E., J. Li, S.G. Greenbaum, F. Croce, S. Slane and M. Salomon, Sodium-23                                                                                                          |               |
| NMR and complex impedance studies of gel electrolytes based on poly(acrylonitrile) Stoyanova, R., E. Zhecheva and C. Friebel, $Ni^{3+}$ – $Ni^{2+}$ segregation in $Li_xNi_{2-x}O_2$ solid so- | 73 (1994) 119 |
| lutions $(0.6 \le x < 1)$                                                                                                                                                                      | 73 (1994) 1   |
| Stoyanova, R., E. Zhecheva and L. Zarkova, Effect of Mn-substitution for Co on the crystal structure and acid delithiation of LiMn $_{\nu}$ Co $_{1-\nu}$ O $_{2}$ solid solutions             | 73 (1994) 233 |
| Sun, C., see H. Gao                                                                                                                                                                            | 73 (1994) 99  |
| and all and an                                                                                                                                                                                 | .5 (1774) 77  |
| Tarascon, J.M., see F. García-Alvarado                                                                                                                                                         | 73 (1994) 247 |
| Tebtoub, M., see D. Monceau                                                                                                                                                                    | 73 (1994) 221 |
| Thangadurai, V., A.K. Shukla and J. Gopalakrishnan, Proton conduction in layered per-<br>ovskite oxides                                                                                        | 73 (1994) 9   |
|                                                                                                                                                                                                |               |

| Tian, S.B., see J. Bradshaw                                                                                                  | 73 (1994) 147 |
|------------------------------------------------------------------------------------------------------------------------------|---------------|
| Timofeeva, V.A., see D.M. Poojary                                                                                            | 73 (1994) 75  |
| Uvarov, N.F., see E.F. Hairetdinov                                                                                           | 73 (1994) 93  |
| Vannier, R.N., see O. Joubert                                                                                                | 73 (1994) 309 |
| Wahbi, M., see E.F. Hairetdinov                                                                                              | 73 (1994) 93  |
| Widmer, S., K. Ravindranathan Thampi and A.J. McEvoy, Impedance spectroscopy of an electrocatalytic cathode domain in a SOFC | 73 (1994) 165 |
| Xia, Y., see K. Huang                                                                                                        | 73 (1994) 41  |
| Xu, G., see J. Bradshaw                                                                                                      | 73 (1994) 147 |
| Xue, J. and R. Dieckmann, Variation of the oxygen content in tetragonal, calcium oxide-<br>doped zirconia                    | 73 (1994) 273 |
| Yoshikado, S., see Y. Ito                                                                                                    | 73 (1994) 283 |
| Zarkova, L., see R. Stoyanova                                                                                                | 73 (1994) 233 |
| Zembura, Z., see L. Burzyńska                                                                                                | 73 (1994) 35  |
| Zhang, Y., see H. Gao                                                                                                        | 73 (1994) 99  |
| Zhecheva, E., see R. Stoyanova                                                                                               | 73 (1994) 1   |
| Zhecheva, E., see R. Stoyanova                                                                                               | 73 (1994) 233 |





Solid State Ionics 73 (1994) 333,334

SOLID STATE IONICS

## Subject Index to Volume 73

Acid delithiation, 233 Acidity, 189 Ag\* conduction, 241 AgI-AgPO<sub>3</sub> glasses, 199 Aluminum fluorophosphate, 75 Ammonia reduction, 81

β"-alumina, 297
Barium titanate, 139
Ba substituted perovskites, 289
Battery
lithium, 319
Beta-lead fluoride doped potassium fluoride, 283
BIMEVOX, 309
Boron oxide, 99
Brass, 35
Bronze, 247

CaO-doped zirconia, 273
Catalysis, 289
Catalytic activity, 105
Ceramic matrix composites (CMC), 209
Ceramics, 221
Cesium diffusion, 303
Complex correlated system (CCS), 67
Conduction paths, 105
Conductivity, 49, 139, 175
Copper carboxylates, 153
Copper phydride, 35
Copper phosphate, 63
Copper sulphide coatings, 175
Copper tungstate, 63

DABSA, 147 Defect conductivity, 9 Defects, 139 Dehydration, 153 Dipicolinate, 153 Dislocation reaction, 127

Electrocatalysis, 165
Electrochemical permeability, 15, 27
Electrochemical vapor deposition (EVD), 255
Electrolyte, 49

Electronic conductivity, 41 EPR, 1 Etching, 127

Film growth, 255 Fluorite, 93 Fuel cell, 165

Gel electrolytes, 119 Glass, 63, 99 Glassy electrolytes, 241

Hopping conductivity, 67 Hydrogen uranyl phosphate (HUP), 227

Impedance, 49
Impedance spectroscopy, 105, 139, 165, 265
Interfacial electrochmistry, 165
Ion blocking technique, 15, 27
Ion-exchange, 303
Ionic conductivity, 199, 309
copper, 63
fluorine, 93, 283
lithium, 99, 147
oxygen, 265
proton, 9
sodium, 75
Ionic hopping, 199

Kinetic demixing, 221 Kinetics, 255

Lamellar solid, 189
Lanthanum zirconium oxide, 265
Layered structure, 67
Lead fluoride, 93
Lithium battery, 81, 247
Lithium-manganese-cobalt oxide, 233
Lithium nickelate, 1
Low-spin Ni<sup>3+</sup>, 1

Manganese oxide, 81 M barium-ferrite, 185 Mechanical relaxation, 241 Methane oxidation, 289 Mixed valence dopant, 15, 27 Mo/MoO<sub>2</sub> reference, 41 Molybdenum oxide, 319 Multite fibers, 209

NASICON, 209 NMR study of Na+ motion, 119

O<sub>2</sub> properties, 289 Oxygen concentration cell, 15, 27 Oxygen coulometric titration, 185 Oxysulfide, 99

Perovskite, 9
Phase transitions, 209
Phosphate glasses, 241
Phosphates, 189
Pillared materials, 67, 189
PMDA, 147
Poly(acrylonitrile) fibres, 175
Poly(acrylonitrile) gels, 119
Polyimide, 147
Polymer, 147
Potassium, 297
Proton diffusion, 227

Reduction mechanism, 227 Rietveld, 309

Self diffusion, 303 Short-range order, 1 SiC fibers, 209 Silica, 189
Silicon, 127
Silver iodide, 241
Silver vanadium oxide, 247
Single crystal, 297
Sodium diffusion, 303
SOFC, 49
Solid protonic conductor (SPC), 227
Spinel, 81
Stability, 185
Structure, 153, 283

Thermal decomposition, 153 Thermal expansion, 209 Thermogravimetry, 273 Thin film, 265, 297, 319 Tin phosphate, 67 Titanium oxide, 9, 303 Topochemical reaction, 127

Vanadium, 247 Vanadium oxide, 247 Variation of oxygen content, 273

XPS studies, 289 X-ray diffraction, 75

YSZ, 255

Zeolites, 105 Zinc dissolution, 35 Zirconia, 15, 27, 41, 49

